Listing of the Claims

This listing of the claims replaces all prior versions and listings of claims in this application.

- 1. (Currently amended) A method of oxidizing an organic compound present in soil, groundwater, process water or wastewater said method comprising contacting the organic compound with a composition comprising a persulfate [water soluble peroxygen compound], a source of divalent or trivalent transition metal ions, and a chelating agent for said metal ions.
- 2. (Currently amended) A method as in claim 1, wherein the organic compound is present in soil, groundwater, [process water] or wastewater.
- 3. (Original) A method as in claim 1, wherein the organic compound is selected from the group consisting of volatile organic compounds, semi-volatile organic compounds, polyaromatic hydrocarbons, polychlorobiphenyls, pesticides and herbicides.
- 4. (Currently amended) The method as in claim 1, wherein the [peroxygen compound] <u>persulfate</u> is a dipersulfate.
- 5. (Original) The method as in claim 4, wherein the dipersulfate is selected from sodium, potassium or ammonium persulfate or a combination thereof.
- 6. (Currently amended) The method as in claim 1, wherein the [peroxygen compound] <u>persulfate</u> is a monopersulfate.
- 7. (Original) The method as in claim 6, wherein the monopersulfate is selected from sodium and potassium monopersulfate.

- 8. (Currently amended) The method as in claim 1, wherein the [peroxygen compound] <u>persulfate</u> is a combination of a dipersulfate and monopersulfate.
- 9. (Original) The method as in claim 1, wherein the transition metal is iron.
- 10. (Original) The method as in claim 9, wherein the iron is divalent.
- 11. (Original) The method as in claim 9, wherein the iron is trivalent.
- 12. (Original) The method as in claim 1, wherein the chelating agent is ethylenediaminetetraacetic acid.
- 13. (Original) The method as in claim 1, wherein the amount of chelating agent is equal to at least the stoichiometric amount to chelate all of the transition metal.
- 14. (Original) The method as in claim 1, wherein the amount of chelated transition metal is sufficient to deliver an equivalent amount of transition metal in the range of 1 1000 ppm.
- 15. (Currently amended) The method as in claim 1, wherein the amount of [peroxygen compound] <u>persulfate</u> is sufficient to satisfy the soil oxidant demand and to oxidize substantially all of the organic compound.
- 16. (Currently amended) The method as in claim 1, wherein the chelating agent, transition metal and the [peroxygen compound] persulfate are added in combination.
- 17. (Currently amended) The method as in claim 1, wherein the chelating agent, transition metal and the [peroxygen compound] persulfate are added sequentially.
- 18. (New) The method as in claim 1, wherein the chelating agent is citrate.